

Amendments to the Claims:

Cancel claim 11, 23 without prejudice or disclaimer

1. (Currently Amended) A plant for generating active and reactive electric power for a high-voltage distribution or transmission network, comprising at least one of a gas and steam turbine coupled via a shaft means to at least one electric generator for generating a high voltage, said electric generator including at least one flexible winding comprising a conductor formed of a plurality of insulated strands and a lesser plurality of uninsulated strands, ~~a solid~~ an insulation system including ~~at least one of~~ an inner semiconducting layer surrounding the conductor, a solid insulation surrounding the inner semiconducting layer and an outer semiconducting layer surrounding the solid insulation layer, each layer said inner layer and said outer layer each forming an equipotential surface, and a solid insulation.

2. (Previously Presented) The plant as claimed in claim 1, wherein the generator comprises a magnetic circuit with a magnetic core.

3. (Previously Presented) The plant as claimed in claim 2, wherein the flux paths in the core of the magnetic circuit comprise at least one of laminated sheet and cast iron and power-based iron and forged iron.

4. (Previously Presented) The plant as claimed in claim 1, wherein the winding comprises a high voltage cable including one or more of said current-carrying conductors surrounded by the solid insulation.

5. (Currently Amended) The plant as claimed in claim 4, wherein the inner semiconducting layer is ~~surrounded by the solid insulation and is in~~ electrical contact with a selected plurality of the conductors and is at substantially the same potential as said selected plurality of conductors.

6. (Currently Amended) The plant as claimed in claim 4, wherein the equipotential surface formed by the outer semiconducting layer ~~forms an equipotential surface surrounding~~ surrounds the conductor and solid insulation.

7. (Previously Presented) The plant as claimed in claim 6, wherein said outer semiconducting layer is connected to a selected potential.

8. (Previously Presented) The plant as claimed in claim 7, wherein the selected potential is earth potential.

9. (Currently Amended) The plant as claimed in claim 4, wherein at least one of said inner and outer semiconducting layers form a monolithic structure with the solid insulation having substantially the same coefficient of thermal expansion.

10. (Cancelled)

11. (Cancelled)

12. (Cancelled)

13. (Currently Amended) The plant as claimed in claim 1, wherein at least one electric generator is arranged to supply the out-going electric network directly without any intermediate connection of a step-up transformer ~~(unit transformer)~~.

14. (Previously Presented) The plant as claimed in claim 1, wherein at least one generator is arranged to supply an out-going network comprising at least 2 part-networks, at least one part-network being supplied via an intermediate system transformer.

15. (Previously Presented) The plant as claimed in claim 1, comprising several generators, each of which lacks an individual step-up transformer but which, via a system transformer common to the generators, is connected to the transmission or distribution network.

16. (Currently Amended) The plant as claimed in claim 1, wherein the windings of the stator in at least one generator are arranged for connection to more than ~~one voltage~~ one voltage level.

17. (Currently Amended) The plant as claimed in claim ~~15~~ 1, ~~wherein one of said voltage levels relates to generation of auxiliary power, this being generated from including a separate winding in the generator~~ for generating auxiliary power.

18. (Previously Presented) The plant as claimed in claim 1, wherein at least one generator is earthed via an impedance.

19. (Previously Presented) The plant as claimed in claim 1, wherein at least one generator is directly earthed.

20. (Previously Presented) The plant as claimed in claim 1, wherein the stator of the generator is cooled at earth potential by means of a flow of gas and/or liquids.

21. (Currently Amended) The plant as claimed in claim 1, wherein ~~the at least one winding comprises a flexible cable for high voltage having cables intended for high voltage have~~ a conductor area of between about 50 and 3000 mm² and ~~have~~ having an outer diameter of between about 20 and 250 mm.

22. (Currently Amended) The plant as claimed in claim 1, wherein the at least one winding ~~of the stator~~ comprises a fractional slot winding.

23. (Cancelled)

24. (Previously Presented) The plant as claimed in claim 1, wherein the rotor of at least one generator comprises at least one of 2 and 4 poles.

25. (Previously Presented) The plant as claimed in claim 1, wherein the voltage level is controllable $\pm 20\%$ of the rated voltage.

26. (Previously Presented) The plant as claimed in claim 1, wherein the winding of the generator is arranged for self-regulating field control free of auxiliary means for control of the field.

27. (Previously Presented) The plant as claimed in claim 1, wherein the stator of at least one generator is composed of axially combined, plate-shaped sections, preferably as whole sections in the peripheral direction.

28. (Currently Amended) AThe plant for generating active and reactive electric power for a high-voltage distribution or transmission network, including at least one electric generator which is coupled to at least one of a gas and/or a steam turbine via a shaft means ~~and said at least one electric generator~~ including at least one flexible winding, wherein ~~the at least one~~ winding ~~of at least one of the electric generators~~ comprises a conductor formed of a plurality of conductive insulated strands, and a lesser plurality of uninsulated strands and an insulation system including an inner layer having semiconducting properties surrounding and being in electrical contact with the conductor, uninsulated strands, a solid insulation

surrounding the inner layer and an outer layer having semiconducting properties surrounding the solid insulation, said winding being operable in excess of 36kV.

29. (Currently Amended) An electric generator arranged to be coupled to at least one of a gas and a steam turbine via a shaft means and comprising at least one flexible winding, wherein the winding comprises a conductor formed of a plurality of conductive strands; and a lesser plurality of uninsulated strands, a solid insulation system surrounding the conductor including an inner layer having semiconducting properties surrounding the conductor, a solid insulation surrounding the inner layer and an outer layer having semiconducting properties surrounding the solid insulation each of said inner and outer layers at least 2 semiconducting layers, each layer forming an equipotential surface, and ~~an intermediate solid insulation~~, wherein at least one of the inner and outer semiconducting layers forms a monolithic structure with the solid insulation having substantially the same coefficient of thermal expansion.

30. (Cancelled)

31. (Previously Presented) A procedure for manufacturing an electric generator as claimed in claim 29, wherein the stator is wound in-situ where the generator is to be used.

32. (Previously Presented) The procedure as claimed in claim 31, wherein the stator is manufactured at the factory axially divided into a plurality of plate-shaped, separate sections, each section preferably being manufactured as a whole section in the peripheral direction.

33. (Currently Amended) A plant for generating active and reactive power of high-voltage distribution including at least one rotating high voltage electric machine comprising a stator; a rotor and a winding, wherein said winding comprises a flexible cable including at least one current-carrying conductor including a plurality of insulated strands and at least one uninsulated strand and ~~a magnetically permeable, electric field confining cover~~ an insulation system surrounding the conductor, said insulation system comprising an inner layer having semiconducting properties surrounding and being in contact with the uninsulated conductor, a solid insulation surrounding the inner layer and an outer layer having semiconducting properties surrounding the solid insulation, said cable forming at least one uninterrupted turn in the corresponding winding of said machine.

34. (Previously Presented) The plant of claim 33, wherein the cover comprises an insulating layer surrounding the conductor and an outer layer surrounding the insulating layer, said outer layer having a conductivity for establishing an equipotential surface around the conductor.

35. (Currently Amended) The plant of claim 33, wherein the cover comprises an inner layer surrounding the conductor and being in electrical contact therewith; ~~and an~~ insulating layer surrounding the inner layer and an outer layer surrounding the insulating layer.

36. (Original) The plant of claim 35, wherein the inner and outer layer have semiconducting properties.

37. (Previously Presented) The plant of claim 33, wherein the cover is formed of a plurality of layers including an insulating layer and wherein said plurality of layers form a monolithic structure being substantially void free.

38. (Previously Presented) The plant of claim 33, wherein the cover is in electric contact with the uninsulated strands of the conductor.

39. (Previously Presented) The plant of claim of 33, wherein the layers of the cover form a monolithic structure having substantially the same temperature coefficient of expansion.

40. (Previously Presented) The plant of claim 33, wherein the layers of the cover form a monolithic structure having substantially the same temperature coefficient of expansion such that the machine is operable at 100% overload for two hours.

41. (Previously Presented) The plant of claim 33, wherein the cover is operable to render the cable free of sensible end winding loss.

42. (Previously Presented) The plant of claim 33, wherein the cover is operable to render the cable free of partial discharge and field control.

43. (Original) The plant of claim 33, wherein the winding comprises multiple uninterrupted turns.

44. (Original) The plant of claim 33, where the cable is flexible.